

## Practical Project 2

### Instrument Level checking (2 Peg test)

Candidates Name: \_\_\_\_\_

TAFE ID Number: \_\_\_\_\_

Date of Assessment: \_\_\_\_\_

Team Member's Name: \_\_\_\_\_

\_\_\_\_\_

Setup and test the Instrument ( Inst. No. \_\_\_\_\_ )

	0.0 m	40.0 to 50 m	Difference
Recording from centre spot :	1 _____	2 _____	_____
Recording from 5 or 45 m spot :	1 _____	2 _____	_____

(For each field exercise a level check is required. This check must be carried out each time before you do levelling. )

(This information must be on your cover sheet)

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### Instruction for PROJECT 2

**1)** Setup and record the levels of each of the grid points, marked in the area shown on the "Location Plan". Take Station 1 as datum 10.000 and convert staff readings to Reduced Levels, using the rise and fall method.

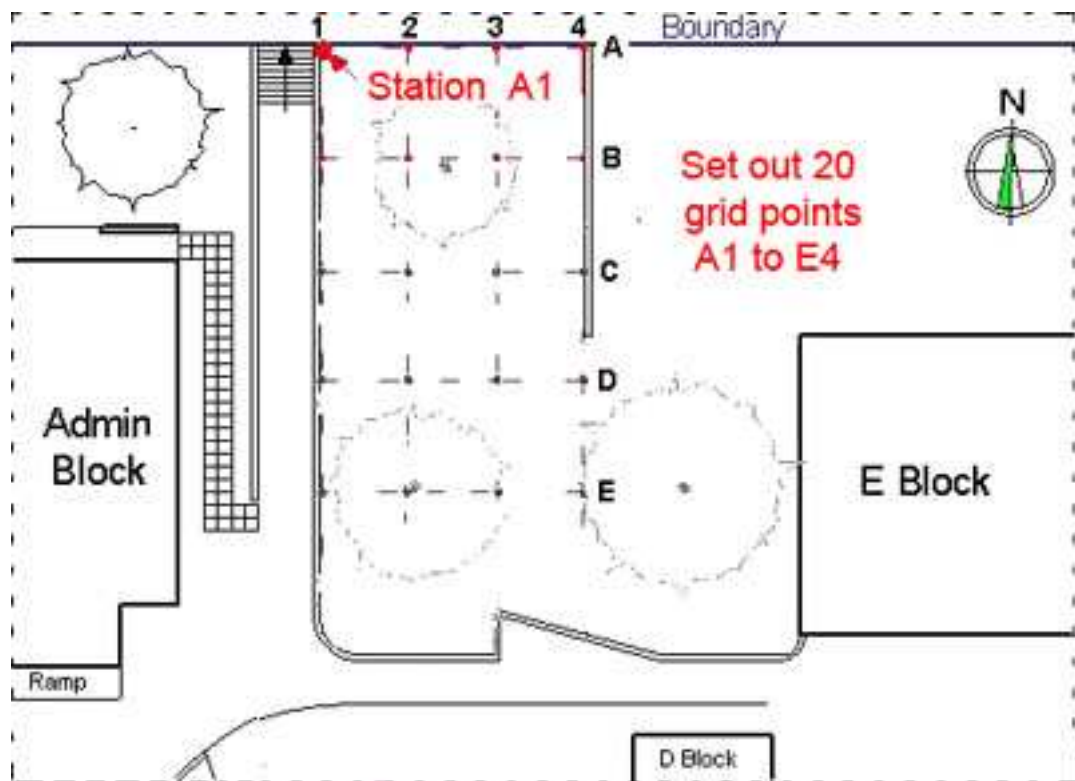
**2)** Grid three (3) equal spaces between walls and four (4) spaces of approximately five (5) metre down (20 grid points, see sketch below). Prepare a grid-sketch showing the dimensioned of grid lines.

**3)** Prepare a scaled sketch (1:100) and display all 20 RL's. Then draw contours lines at 0.2 m intervals.

**4)** Calculate the volume of fill required using the datum at Station 1 (RL=10.000 m). Two methods of volume calculations, rectangular prisms and grid levels, must be done. Compare the results. All calculations must be clearly and logical set out.

Remember to make a copy of the field notes for group members to enable students to write a personal report. Your report must cover all of the above four points.

### Project 2 Location Plan



Submission date: ► refer to your Learning Plan

### Project Submission Requirements

Refer to the project notes for the scope of the three practical projects. Projects need to be submitted on due date; refer to 'Assessment Summary' on the *Learning Plan*.

All projects must include the following:

1. Assignment Attachment form. (do not forget to sign the declaration)
2. Standard cover sheet (see outlay below).
3. Create a digital version of data Rise & fall from field notes. Transferred this data onto excel sheet to calculate RL's.
4. A brief description of the exercise including some information from the field notes like weather conditions, group members and anything that you would like to name. Was it easy to perform the activity and did you had have sufficient technological skills to submit it in digital form? Where there any problems with computer (usage of word & excel)? Did you gain valuable skills in data recording, reading, measuring distances, and group work?

5. Drawings/sketches (profiles, contours etc.) neatly drawn to scale. Profile layouts in accordance with the hand out sheet.
6. All original field notes must be attached.

### Cover sheet layout

Central Institute of Technology

Apply site surveys and set out procedures  
to building and construction project

**CPCBC4018A**

**Project No ....**

Insert Two Peg Test recording

◀ *Left side margin > 2.5 cm*

Student Name:	ID:
Group No:	Group leader:
Date: of field work	Date: of submission

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Class attendance is critical to successful completion of this course

## Survey Field Notes

When you do any survey you need to record field notes. They provide a permanent record of your work done in the field. The notes must be organized and legible. All field notes must be recorded at the time the work is being done.

Your field notes should be done in pencil. Erasures of observed data are not permitted in the field notes. Incorrect field entries should be stroked out with a single line and the proper value clearly noted. If an entire page is to be ignored, a diagonal line should be drawn from corner to corner and the word VOID should be clearly written along with the reason why the data is wrong.

Field notes should contain: the date, the weather conditions, group members doing the survey, identification of the instruments (model & serial number) and other equipment, data collection etc., a brief description of the site and/or location details. Sketches of the building (with north arrows) and all field dimensions and any other notations which assist in clarification of the field and site conditions are essential. Which student did recording, placing pegs, measuring distance etc?)

## Rise & Fall Template

Station	Back-sight	Inter-mediate	Fore-sight	Rise	Fall	Reduced level	Distance	Remarks
A								
B								
C								
D								
E								
F								
G								
H								
J								
K								
L								
M								
N								
P								
Q								
R								
S								
T								
U								
V								
W								
X								
Y								
Z								